NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NO.NC/QC/YD/2019-20/W3-VN

Date: 18-01-2020

To,
The Executive Engineer,
Yelahanka Division
Bangalore.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Subject: Regarding Quality Report for the below mentioned work.

Name of Work: Providing cement concrete road and drain and culverts in Basavalingappa Nagara and other surrounding areas in Ward No. 03 Attur

Item No	Description of work	Unit	Qty	No of Samples Tested	Standards
1	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @	Cum	197.47	3	Per 100 cum
2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs.	Cum	261.89	10	Per 50 cum
3	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including	Ton	11.87	1	For each dia
4	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165	Cum	2387.00	2	Per 50 cum
5	Constructing un-reinforced, plain cement concrete for pavements using Grade	Cum	137.70	6	Per 50 cum

With respect to the above subject & name of the work, we have tested the materials and the Quantity of above mentioned items of the work was found to be completed satisfactorily for the 1st and Final bill

Thanking you,

With Regards,

For Newzen Consultants Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W3-VN-C1 Date: 22-11-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**152 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3days (average of three results)	**28.78 N/Sq mm**	Shall not be less than 27 N/Sqmm

NEWZEN CONSULTANT BANGALORE

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

NC/QC/YD/2019-20/W3-VN-PCC1 Date: 22-11-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.25	0 -20	30- 70
10mm	26.45	0 -5	10- 35
4.75mm	4.90	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.50	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.20	60-95	75-100	85-100	
01.18	71.65	30-70	55-90	75-100	
600.mic	52.30	15-34	35-59	60-79	
300.mic	18.90	5-20	8-30	12-40	
150.mic	7.15	0-10	0-10	0-10	

NEWZEN CONSULTANT BANGALORE

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NC/QC/YD/2019-20/W3-VN-PCC2 Date: 25-11-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	62.80	0 -20	30- 70
10mm	27.10	0 -5	10- 35
4.75mm	4.65	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.15	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	85.45	60-95	75-100	85-100	
01.18	73.20	30-70	55-90	75-100	
600.mic	46.10	15-34	35-59	60-79	
300.mic	19.50	5-20	8-30	12-40	
150.mic	8.65	0-10	0-10	0-10	

NEWZEN CONSULTANT BANGALORE

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

NC/QC/YD/2019-20/W3-VN-FA1 Date: 26-11-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	98.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	86. 15	60-95	75-100	85-100	
01.18	72.05	30-70	55-90	75-100	
600. mic	45.30	15.34	35-59	60-79	
300.mic	23.10	5-20	8-30	12-40	
150.mic	8.15	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	17.86 %	-----
2	Silt Content	----	0.57%	Not more than 8%
3	Specific Gravity	----	2.61	-------

NEWZEN CONSULTANT BANGALORE

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

NC/QC/YD/2019-20/W3-VN-S1

Date: 26-11-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 mm **TMT Steel.**

{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE – 1

SL No	Details	For 10 mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm
02	Observed Wt/m Length Kg/m	**0.623**	0.567
03	Proof stress/Yield stress, fy , N/mm^2	**542.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**19.50**	12.00
06	Ultimate Tensile Strength N/mm^2	**639.0**	545.0

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Page No. 1/1,

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KIRAN. R
M.E, (Civil-Engg)

NC/QC/YD/2019-20/W3-VN-CB2 Date: 06-12-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-11-19	06-12-19	07	22500	360	16.00	16.07
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	370	16.44	

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NEWZEN CONSULTANTS BANGALORE

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

NC/QC/YD/2019-20/W3-VN-CB4 Date: 13-12-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20.
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-12-19	13-12-19	07	22500	370	16.44	16.67
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

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NC/QC/YD/2019-20/W3-VN-CB2A Date: 27-12-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer.
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL. Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-11-19	27-12-19	28	22500	515	22.89	22.52
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	510	22.67	

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NC/QC/YD/2019-20/W3-VN-CB5A

Date: 04-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-12-19	04-01-20	28	22500	525	23.33	22.96
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	510	22.67	

NEWZEN CONSULTANTS * BANGALORE

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NC/QC/YD/2019-20/W3-VN -K2

Date: 26-12-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.31	22..40	22.98	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.39	23.45		
3	003	3.36	23.10		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.59	4.64
2	002	4.71	
3	003	4.64	

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NC/QC/YD/2019-20/W3-VN –K5

Date: 06-01-2020

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.34	22.85	22.30	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.24	21.45		
3	003	3.32	22.60		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.23	4.73
2	002	5.01	
3	003	4.97	

NEWZEN CONSULTANT BANGALORE

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EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W3-VN-C3

Date: 08-12-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	160 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.14%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.07mm	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	28.35 N/Sq mm	Shall not be less than 27 N/Sqmm

NEWZEN CONSULTANT * BANGALORE *

Page No. 1/1,

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M.E, (Civil-E...

NC/QC/YD/2019-20/W3-VN-PCC3

Date: 08-12-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.90	0 -20	30- 70
10mm	25.35	0 -5	10- 35
4.75mm	3.70	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.25	60-95	75-100	85-100	
01.18	76.15	30-70	55-90	75-100	
600.mic	43.85	15-34	35-59	60-79	
300.mic	18.90	5-20	8-30	12-40	
150.mic	7.05	0-10	0-10	0-10	

NEWZEN CONSULTANT * BANGALORE *

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EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W3-VN-CB6

Date: 18-12-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-12-19	18-12-19	07	22500	520	23.11	**23.33**
	002	"	"	"	"	540	24.00	
	003	"	"	"	"	515	22.89	

NEWZEN CONSULTANT * BANGALORE *

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

NC/QC/YD/2019-20/W3-VN-CB8A

Date: 09-01-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-12-19	09-01-20	28	22500	730	32.44	32.59
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	745	33.11	

NEWZEN CONSULTANT * BANGALORE *

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